

APR 15 1991



April 11, 1991

Mr. Marc Coleman
State of Vermont
Department of Environmental Conservation
Hazardous Materials Management Division
103 South Main St.
Waterbury, VT 05676

RE: Tank pull inspection, Advanced Animations, Stockbridge,
Vermont

Dear Mr. Coleman:

On April 5th, 1991, I inspected the excavation of two underground storage tanks at Advanced Animations, in Stockbridge, Vermont. Enclosed, please find the following:

- tank pull forms
- site map
- photographs of the tanks and tank pits
- well log and lab data

The two tanks were excavated by Ray Harvey, of Stockbridge. One of the tanks which was pulled on this date had a 750 gallon capacity and was used to store gasoline. The other tank had a 6,500 gallon capacity and was used to store heating oil. The gasoline tank contained approximately 375 gallons of water in it, prior to excavation. The water was pumped out prior to its excavation. The heating oil tank contained approximately 1,100 gallons of product prior to excavation. There was no water in this tank. C.V. Oil pumped the product from the tank prior to excavation.

Both tanks had not been in use for over ten (10) years, prior to their excavation. The gasoline tank was used to store fuel for the fleet of vehicles of the previous owner of the property, Stanley Tools. Advanced Animations has not used the tank since it

purchased the property. C.V. Oil removed all product from the tank when Stanley Tool left the property, approximately eleven (11) years ago. The heating oil tank stored fuel for Stanley Tool's boilers. The tank has not been used since Advanced Animations installed a propane furnace after purchasing the property.

Both tanks were removed from the property on April 4th. I visited the site on April 5th, at which time, I screened the soils in both tank pits for volatile organic vapors (VOC's), using a portable photoionization device (PID). VOC concentrations in the gasoline tank pit were recorded up to 70 parts per million (ppm). No VOC's were detected in the heating oil tank pit. Both tank pits contained no visible signs of petroleum contamination. Immediately after screening the soils in the tank pits, the holes were backfilled with soils excavated during the tank removal. Clean fill was used to make up the difference in volume in both tank pits.

In December, 1990, the Johnson Company, of Montpelier, conducted an environmental audit of the Advanced Animations property. As part of the audit, a groundwater monitoring well was installed at the north end of the gasoline tank. The well is 50 feet deep but did not contain groundwater in December. Soil samples collected from the borehole for this well, MW-4, did contain detectable concentrations of VOC's (see attached lab results).

After inspecting the Advanced Animations property, I travelled to two separate locations which the tanks were taken to after excavation. The gasoline tank was taken to a gravel pit, owned by Ray Harvey. Inspection of that tank revealed no holes, however, the connection between the fill pipe and the tank appeared corroded. The attached photograph shows the top of the tank, where the fill pipe was attached to the tank. It is likely that the water in the tank had entered the tank, from the top, at this connection. The heating oil tank had been taken to a separate location to be used as a culvert for a logging operation. This tank appeared to be in excellent condition. The attached photograph shows the black paint, still visible on the bottom of the tank.

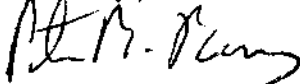
Groundwater in the vicinity of Advanced Animations likely flows to the northeast at a steep gradient. The facility is located on the top of a steep bluff, overlooking the White River Valley. There are no homes between the facility and the river, which is approximately 1,000 feet away.

In summary, it appears as if there was a release(s) of gasoline to the subsurface in the vicinity of the 750 gallon gasoline tank.

Resulting soil contamination detected in a nearby monitoring well appears to be minimal. There is no evidence that the 6,500 gallon heating oil tank leaked petroleum to the subsurface.

Please call me with any questions which you may have regarding this project.

Sincerely,

A handwritten signature in black ink, appearing to read "P. M. Murray", written over the printed name.

Peter M. Murray
Site Inspector

cc: Dan Long, Advanced Animations

SITE MAP

PROJECT: ADVANCED ANIMATIONS
LOCATION: STOCKBRIDGE, VERMONT
GRIFFIN PROJECT NO.: 491414



ADVANCED ANIMATIONS

6,500 GALLON
HEATING OIL TANK

DRIVEWAY

ASSUMED GROUNDWATER
FLOW DIRECTION →

● MONITORING WELL
750 GALLON
GASOLINE TANK

PARKING

Griffin International

The Johnson Company, Inc.
Environmental Sciences and Engineering
5 State Street
Montpelier, Vermont 05602

DRILLING LOG

WELL # MW-4

Project: Advanced Animations
Location: Stockbridge, VT
Job # 1-0341-2
Logged By: BAW
Date Drilled: 12/19/90
Driller: Tri-State
Drill Method: HSA

Casing Type: PVC
Casing Diameter: 2.0 in.
Casing Length: 43 ft.
Screen Type: Factory slotted
Screen Diameter: 2.0 in.
Screen Length: 10.0 ft.
Slot Size: .020"

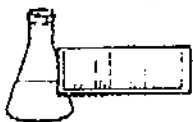
Total Pipe: 53 ft.*
Stick Up: 3 ft.*
Total Hole Depth: 50.4 ft.
Well Guard Length: 4.0 ft.
Initial Water Level: None
Surface Elevation: N/A
T.O.C. Elevation: N/A

Sheet 1 of 1

■ = Sampled Interval

*approximate

Depth (feet)	Well Construction	Notes	Geology	Blow Counts	Description
0	Well Guard				
2	Cement				
4					
6				8.5 3.4	5'-7': olive gray gravelly sand, loose, single grain
8				2 3.1 3	
10	Backfill			2 3 2	10'-12': olive gray loamy fine sand, loose, single grain, two 1/2" varves of silt loam between 11'-12'
12				3.4 3 4	
14				2.3 3.4	15'-17': olive gray fine sand, loose, single grain
16				3.4 5.6	
18	Bentonite			2.2 3.7	20'-22': olive gray fine sand, loose, single grain
20				2.2 3.3	25'-27': gray silt loam, moist, massive
22	Backfill			2.2 2.3	
24				2.2 3.4	30'-32': olive gray fine sand, loose, single grain, nearly dry
26	Bentonite				
28					35'-37': gray silt loam, moist, massive friable, 3" varve of sand at 36.5'
30					
32	Backfill				40'-42': gray silt loam, saturated, massive, friable
34					
36	Bentonite				45'-47': same as above
38					
40	Sand Pack				50'-52': same as above
42					
44	Screen				
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ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT
EPA METHOD 8240 -- SOIL EXTRACTION VOLATILES

CLIENT: Johnson Company
PROJECT NAME: Visual Services, Inc.
REPORT DATE: January 3, 1991 ANALYSIS DATE: December 28, 1990
SAMPLER: Bradley A. Wheeler STATION: 4-1 - MW4, 25-27'
DATE SAMPLED: December 19, 1990 REF. #: 17,043
DATE RECEIVED: December 20, 1990 TIME SAMPLED: 9:00

<u>Parameter</u>	<u>Quantitation</u> <u>Limit (ug/kg)</u>	<u>Concentration</u> <u>(ug/kg)</u>
Acetone	100	ND ¹
Benzene	5	ND
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	10	ND
2-Butanone	100	ND
Carbon Disulfide	5	ND
Carbon Tetrachloride	5	ND
Chlorobenzene	5	ND
Chloroethane	10	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	10	ND
Dibromochloromethane	5	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1-Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	5	ND
cis-1,3-Dichloropropene	5	ND
trans-1,3-Dichloropropene	5	ND

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JAN 04 1991



ENDYNE, INC.

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32 James Brown Drive
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Ref. #: 17,043

<u>Parameter</u>	<u>Quantitation</u> <u>Limit (ug/kg)</u>	<u>Concentration</u> <u>(ug/kg)</u>
Ethyl Benzene	5	ND
2-Hexanone	50	ND
4-Methyl-2-Pentanone	50	ND
Methylene Chloride	5	PLE ²
Styrene	5	ND
1,1,2,2-Tetrachloroethane	5	ND
Tetrachloroethene	3	ND
Toluene	5	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Vinyl Acetate	50	ND
Vinyl Chloride	10	ND
Total Xylenes	5	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

- 1 None detected
- 2 Present in background laboratory environment

Reviewed by Suzanne M. French



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LABORATORY REPORT
EPA METHOD 8240 -- SOIL EXTRACTION VOLATILES

CLIENT: Johnson Company
PROJECT NAME: Visual Services, Inc.
REPORT DATE: January 3, 1991 ANALYSIS DATE: December 28, 1990
SAMPLER: Bradley A. Wheeler STATION: 4-2 - MW⁴, 40-42
DATE SAMPLED: December 19, 1990 REF. #: 17,044
DATE RECEIVED: December 20, 1990 TIME SAMPLED: 9:30

<u>Parameter</u>	<u>Quantitation</u> <u>Limit (ug/kg)</u>	<u>Concentration</u> <u>(ug/kg)</u>
Acetone	100	ND ¹
Benzene	5	ND
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	10	ND
2-Butanone	100	ND
Carbon Disulfide	5	ND
Carbon Tetrachloride	5	ND
Chlorobenzene	5	ND
Chloroethane	10	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	10	ND
Dibromochloromethane	5	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1-Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	5	ND
cis-1,3-Dichloropropene	5	ND
trans-1,3-Dichloropropene	5	ND

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THE JOHNSON CO. INC.
MONTPELIER, VERMONT



ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

Ref.#: 17,044

<u>Parameter</u>	<u>Quantitation</u> <u>Limit (ug/kg)</u>	<u>Concentration</u> <u>(ug/kg)</u>
Ethyl Benzene	5	ND
2-Hexanone	50	ND
4-Methyl-2-Pentanone	50	ND
Methylene Chloride	5	PLE ²
Styrene	5	ND
1,1,2,2-Tetrachloroethane	5	ND
Tetrachloroethene	5	ND
Toluene	5	26.8
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Vinyl Acetate	50	ND
Vinyl Chloride	10	ND
Total Xylenes	5	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

- 1 None detected
- 2 Present in background laboratory environment

Reviewed by Suzanne M. Thendahl

Well	Depth	Date Collected	Time Collected	Date Tested	Time Tested	Background ppm	Reading ppm
Abandoned	10-12'	12/17	10:00	12/20	3:35	1.0	1.0
MW-3	15-17'	12/18	2:15	12/20	3:37	1.0	28
MW-3	56.5'	12/18	2:45	12/20	3:43	1.0	19
MW-4	6-7'	12/19	8:30	12/20	3:50	1.0	1.0
MW-4	11-12'	12/19	8:40	12/20	3:53	1.0	160
MW-4	13-14'	12/19	8:45	12/20	3:55	1.0	160
MW-4	16-17'	12/19	8:45	12/20	4:05	1.4	2.4
MW-4	21-22'	12/19	8:50	12/20	4:08	1.4	1.8
MW-4	26-27'	12/19	9:00	12/20	4:10	1.4	1.4

A reading of 160 ppm was read in the end of the UST vent pipe, so there may still be gasoline in the tank.

1-0341-2

BAW/skg

0103.MEM